

## Pressure Altitude

From the user, a station pressure ( $p_{sta}$ ) is given. In order to calculate pressure altitude, the units for station pressure must be converted to millibars ( $mb$ ) or hectopascals ( $hPa$ ). For information on how to convert to millibars, see the link below:

<http://www.wrh.noaa.gov/slc/projects/wxcalc/formulas/pressureConversion.pdf>

Then, pressure altitude ( $h_{alt}$ ) can be calculated using the equation below:

$$h_{alt} = \left( 1 - \left( \frac{p_{sta}}{1013.25} \right)^{0.190284} \right) \times 145366.45$$

The answer will be units of feet. To convert the answer to units of meters see the equation below:

$$h_m = 0.3048 \times h_{alt}$$